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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/378,669	08/20/1999	SHU LIN	RCA.89417	9410

7590 12/19/2002

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EXAMINER

CHIEU, PO LIN

ART UNIT PAPER NUMBER

2615

DATE MAILED: 12/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/378,669

Applicant(s)

LIN ET AL.

Examiner

Polin Chieu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6,7,8.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

DETAILED ACTION

Specification

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-12 and 14-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Maruyama et al (6,385,389).

Regarding claim 1, Maruyama et al discloses parsing encoded packetized data representative of a sequence of individual images to determine parameters to support navigation through the sequence of individual images (fig. 3); formatting the determined parameters into a predetermined data structure (fig. 25-34); and incorporating the determined parameters in the predetermined data structure into a pre-formed navigation data field (fig. 12 or VMG in fig. 8).

Regarding claim 2, the term "at least one of..." in the claim only requires one of the limitations to be met. Maruyama et al discloses data identifying reference frames in

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a VOB or GOP; a start address of image representative data; and an end address of image representative data (col. 37, line 60-65).

Regarding claim 3 Maruyama et al discloses that the determined parameters in the navigation data field support navigation of a group of pictures (GOP); a video object unit (VOB); a program; a different program; and video data of different MPEG compatible elementary streams (DA21242, fig. 3).

Regarding claim 4, Maruyama et al disclose that the different programs comprise a video program (video pack) and an associated program comprising audio data (audio pack); and text data (sub-picture pack) in figure 27.

Regarding claim 5, Maruyama et al discloses that the different programs comprise two different video programs (1407 and 1408, fig. 27).

Regarding claim 6, Maruyama et al discloses incorporating the determined parameters into a previously black area of the pre-formed navigation data field (col. 12, lines 50-57).

Regarding claim 7, Maruyama et al discloses "Pack Headers" in figure 12 for video, sub-picture, audio, dummy, and navigation data. The pack header indicates the type of data in the pack; therefore, the pack header is an indicator in a datastream including the encoded packetized data and the navigation data field to indicate if the determined parameters are incorporated in the navigation data field. For example, if the pack header indicates navigation data the parameters are incorporated, and if the pack header indicates a dummy pack then the parameters have not been incorporated.

Regarding claim 8, Maruyama et al discloses that the pre-formed data navigation data field comprises a header and a payload and the determined parameters are incorporated in the navigation data field payload (fig. 12).

Regarding claim 9, Maruyama et al discloses that the pre-formed navigation data field accommodates subsequent insertion of the determined parameters (col. 14, lines 46-56).

Regarding claim 10, Maruyama et al discloses recording on a DVD-R or DVD-RAM using video and audio from an AV input (42) in figure 19. Therefore, the encoded packetized data is stored and the parsing occurs in response to initiation of a data format conversion operation (i.e. a recording operation).

Regarding claims 11 and 14, Maruyama et al discloses generating navigation parameters (56) to support navigation through a sequence of individual images by parsing encoded packetized data representative of a sequence of individual images (fig. 3) in the first data format (42) in figure 19; incorporating the navigation parameters into a navigation data field (fig. 12 or VMG in fig. 8); and providing an output comprising packetized data representative of a sequence of individual images in the different second format including the navigation data field (fig. 25 to 34). The AV input is considered to be a first format because the AV input can be from a VCR or the like in which the format is different from the format shown in figures 25-34.

Regarding claim 12, Maruyama et al discloses re-formatting an existing navigation data field with the navigation parameters (col. 14, lines 46-56).

The limitations of claim 15 where discussed in the art rejection of claim 2. Please refer to the art rejection of claim 2.

The limitations of claim 16 where discussed in the art rejection of claim 3. Please refer to the art rejection of claim 3.

The limitations of claim 17 where discussed in the art rejection of claim 4. Please refer to the art rejection of claim 4.

The limitations of claim 18 where discussed in the art rejection of claim 5. Please refer to the art rejection of claim 5.

The limitations of claim 19 where discussed in the art rejection of claim 7. Please refer to the art rejection of claim 7.

The limitations of claim 20 where discussed in the art rejection of claim 8. Please refer to the art rejection of claim 8.

The limitations of claim 21 where discussed in the art rejection of claim 9. Please refer to the art rejection of claim 9.

Regarding claim 22, Maruyama et al disclose encoding data representative of a sequence of individual images (col. 24, line 30 – col. 28, line 64); scanning the formed encoded image representative data to determine parameters to support navigation through the sequence of individual images (col. 25, line 22 – col. 26, line 14); and incorporating the determined parameters in the formed navigation data field (fig. 12 or VMG in fig. 8).

The limitations of claim 23 where discussed in the art rejection of claim 2. Please refer to the art rejection of claim 2.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maruyama et al in view of Yamauchi et al (6,381,398).

Regarding claim 13, Maruyama et al discloses that the second data is a recordable data format (i.e. DVD-R or DVD-RW in figs. 25-34). However, Maruyama et al does not disclose the type of first format used.

Yamauchi et al teaches a disc format conversion device using a first read only data format (13 magneto optical disc) and a second recordable data format (fig. 34).

It would have been highly desirable to conversion from any format to any other format such as from a read only format to a recordable format.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to convert from a read only format to a recordable format in the device of Maruyama et al.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Okada et al discloses a multi-scene DVD; Mishina and Mimura et

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al disclose general DVD devices; Kawamura et al discloses trick information for a DVD; Aoki et al discloses types of magneto-optical disc; and Kondo et al discloses internet web page data on a DVD.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Polin Chieu whose telephone number is (703) 308-6070. The examiner can normally be reached on M-F 8:30 AM-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew B. Christensen can be reached on (703) 308-9644. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

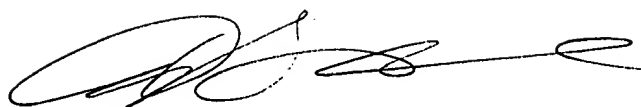
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PC

December 16, 2002

A handwritten signature in black ink, appearing to read 'Andrew Christensen', with a long horizontal flourish extending to the right.

**ANDREW CHRISTENSEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600**